

#### ABSTRACT OF DISCLOSURE

The specification relates to a process of cloning a master embedded system configured with a non-writable volume or partition that stores an embedded operating system, where the master system is configured to provide an overlay to store updates directed to the non-writable volume or partition. A flag in the master system is configured with a setting, where the configured flag is for indicating that the overlay is needed and has not been provided. After configuring the flag, a master image of the master system is created, where the master image includes the configured flag. A clone of the master system is created on a storage of another system based on the master image. Storage units may store images created with the process. Storage units may also store cloned systems produced with the images. A clone of the master system may be provided with an overlay based on the setting of the flag in the clone of the master system, where the overlay provides file-system level write functionality to the non-writable volume or partition of the clone system.